Appl. No. 10/663,875 Amdt. Dated May 26, 2009 Reply to Office Action of January 23, 2009

## Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

## Listing of claims:

- (Previously presented) An isolated RNA comprising an artificial intron RNA that is released in a cell, thereby silencing the function of a target gene.
- (Currently amended) The isolated RNA of claim 1, wherein the artificial
  intron RNA contains a splice donor site, a splice acceptor site, a branch site, and a
  poly-pyrimidine tract.
- 3. (Previously presented) The isolated RNA of claim 1, wherein the cell is a mammalian cell
- (Currently amended) The artificial intron isolated RNA of claim 2, wherein the splice donor site contains 5'-AGGUAAGU-3'.
- (Currently amended) The artificial intro isolated RNA of claim 2, wherein the splice acceptor site contains 5'-CCACAGC-3'.
- (Currently amended) The <u>artificial intron</u> isolated RNA of claim 2, wherein the branch site contains 5-UACUAAC-3.
- (Previously presented) An isolated RNA comprising an artificial intron RNA that is released in a eukaryotic cell, thereby silencing the function of a target gene.
- 8. (Previously presented) An isolated RNA comprising an artificial intron RNA that is released in a eukaryotic cell, thereby silencing the function of a target gene, wherein the artificial intron RNA contains a splice donor site that includes 5'-AGGUAAGU-3', a splice acceptor site that includes 5'-CCACAGC-3', a branch site that includes 5'-UACUAAC-3', a poly-pyrimidine tract that includes 5'-UUCUUUUUUUC-3' (SEQ ID NO:2), or a combination thereof.

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- 9-10. (Canceled)
- 11. (Original) A cultivated cell comprising the isolated RNA of claim 1.
- 12-18. (Canceled)
- 19. (Original) A composition comprising the isolated RNA of claim 1.
- 20-57. (Canceled)
- 58. (New) The isolated RNA of claim 1, wherein the artificial intron contains a sequence that targets an exon of the target gene.
- 59. (New) The isolated RNA of claim 7, wherein the artificial intron contains a sequence that targets an exon of the target gene.
- 60. (New) The isolated RNA of claim 8, wherein the artificial intron contains a sequence that targets an exon of the target gene.

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